DATE PRACTICAL Commission of the Some Basic Concepts of Chen Chemistry deals with the Of matter . Chemistry is molecules Importance of Chemistry -Chemistry is the Granch science that exudies the interaction of matter in knowing chemical transferomations acho central role into section & some & biology geology et . It dis Matures Shot on Y83 Provivo dual camera

0	Solids have definite volume & definite shape.	(3)	Law of Multiple Proportions => This law was proposed by Dalton in 1803 According to
0	Liquids have definite volume but not definite shape.	N K	Dalton in 1803. According to this law, if two elements can combine to form more than
	Gases have neither definite shape neither definite volume.	Park	one compound, the masses of one element that combine with a fined mass of a other element, are in patio of small
*	Laws of Chemical Combination	- Ar	element, are in partio of small whole numbers, "
(1)	Law of Conservation of Mass The states that, "Matter an neither be created nor destroyed." This law was put forth by Antonie Lavoisier in 1789 with several developments	100000000000000000000000000000000000000	Gay Lussac's Law of Gaseous Volumes => This law was given by Gay Lussac in 1800. He observed that when gases combine or are produced in a chemical reaction they do so in a simple ratio by volume. Provided all gases are at
(2)	Law of Definite Proportion => This law was given by a French chemist, Toseph Proust He stated that, A given compound always contains enactly the same proportion of element by weight	(5)	provided all gases are at same temperature & pressure. Avogadro's Law = It states that equal volume of all the gases contain lequal number of molecules at same temperature of pressure.
\$5	Shot on Y83 Pro vivo dual camera		The second of th

			d had a deat the
*	Dalton's Atomic Theory ->		1 Mole of element = Gram Atomic Mass = 6.022 × 103 = 22.4 L at ST.P. if
-)	Every matter is made up of indivisible particles called atoms.		$N = 6.022 \times 10^{23}$ atoms
	It can neither the created nor the destroyed.	1	Colculate no. of particles present in 34 g of NH L also its volume at ST.P.
	Atoms of same elements are identical in all respects.		Mass of NH3 = 349
->	Atoms of different elements are different from each other in all respects.		: $17g$ NH ₃ = 1 mal : $24g$ NH ₃ = 2 mal particles = $2x6022 \times 10^{23}$ particles = $12 \cdot 044 \times 10^{23}$ particles
-	Atoms of different elements combine with each other to from compounds, this they do so in a simple with		: Volume of 179 NH = 22.4 L : Volume of 349 NH = 22.4 × 342 = 44.8 L
	Mole Concept → 1 Mole → It is the SI uni	(2)	[No. of Moles - Mass Molar mass] Calculate no. of moles present in ag of Methane. Also find the ho. of particles present 4

	and the cit	_	- 12 000
	volume occupied by it.	_	= 13 moles.
			= 13 Nn particles.
=)	No. of moles - Mass Molor mass	W	Nhian minch street her Champing
		1	Numericals based on Chemical
	= 8 g' 16 8/mal		equations ->
	= 0.5 mol	1+	State to send les l'étables acortais
	- 0.5 max	_++_	Stoichiometry & Stoichiometric calculations:-
	1:1 0:5 1/		Carearacions
	No. of particles = 0.5 NA = 3.011 x 1023 particles		1 molecule Al Caro decemence
	- Soll Ald pastidu		1 molecule of caco decompose to give 1 molecule of cao
	10 - 10 1000 CH = 20.41		l de molecule of CO
	Volume of 1 mol CH = 22.41		A 1 Moxetile)
	Volume of 0.5 mal CHy = 22.4 x 05	->	I make of caso decomposes to
	= 11.2 L		give I mol of cab and
	And the second		I make of caco decomposes to give I make of cab and
(0)	End out the no of males		
(3)	in on 570 of the	-	100g caco decomposes to give
	in 0 529 of He.	1000	100 g caco decomposes to give 56 g Cao & 44g of co
	0 32 00 9		
=)	a No of moles Mass:	->	1 mole of caco, decomposes
-)	1 No. of moles Mass Malar mass		1 mole of caco decomposes give 1 mole of cat and
			22.4 L of CQ at ST.P.
	$=\frac{52}{4}\frac{g}{\text{Mmol}}$	-	
	= 13 mol	(1)	of volume at S.T.P. Find
	Salar		of Volume at S.T.P. Find
	(i) : 4 u te contains 1 moles	-	molecular mass of that g
			U
公公	Shot on Y83 Profle contains - 1 451 vivo dual camera	-	
	vivo dual camera	No.	

	Link II
=) No. of moles Molecular ms No of moles = 2.2 No of moles = Molar mass	.: 0.7 g • N gives volume = 44.0 x 0.7 = (44.0 x 0.7 = (44.0 x 0.7 = 1.12 L
Also, No. of moles = Volume 22.4 L at STP	* Empirical Formula ->
No. of moles = $\frac{1\cdot12}{22\cdot4}$) (1) Using eq. (1) & (1)	It is a formula that represent the ratio of no. Of moles of various elements present in any compound.
2-2 1:12 1 Molar mass = 22-17 20 : Molar mass = 20 x 2:2	(1) Chlorine is prepared dioxide! ⇒ MnO + 4+100 → MnOl + Cl + 2+10
= 44g (2) What volume of ammonia	1 mol 4 mol 1 mol 2 mol 879 1469 1269 719 369
refroduced from 0.7 g of N2" theating with the	: 87g of Mno protestant requires
$\begin{array}{cccccccccccccccccccccccccccccccccccc$: 0.5 g Mng requires Hcl = 146 x 0.5 = 0.039 g = 0.84 g
Shot on Y83 Pro gives volume of NH vivo dual camera = 44.8 L	(2) 5 kg of N2 is required a hectare of field. Calculat

the mass of Ca (NO) require for the cultivation of what in 5 hectares.	= No. of moles = No. of atoms (
$=) Molecular mass of Ca(Ng) = (40 + 28 + 96) \frac{2}{9} = 164 g$	Also, No. of moles, Mass Molarmass
= 164 g	Using equal D L D
Total amount of No required for 5 hectares = (5×5) & = 25 kg d = 25008 g	No. of atoms Mass
Total amount of N2 in Ca (No) = 2 moles = 2019	=) No. of atoms = $\frac{6.022 \times 10^{23}}{40}$ = 0.1505×10^{23} = 1.505×10^{22}
= 20 g ∴ Total amount of Ca(No.) require to release 25000g N ₂ = 25000 x 161	the land the same also shipped D
= 146428·54 = 146·43.49	(i) % by mass (W/w) => Weight of solute x 100
(3) On putting the signature 0.3; of graphite penal is consume calculate the no. of particles atoms of carbon present in its	(i) PPM (parts per million) =) Weight of solute × 106 Weight of solution

(4)	25 % Nacl solution.		$\mathcal{H}_{\text{flucose}} = \frac{\frac{1}{9}}{\frac{1}{9} + \frac{210}{9}}$
(-)			1 + 40 g
=)	Let mass of solute = 25g .: mass of solution = 100g		= +
3 1	: mass of solution = 100g	- 3	9,
100	The state of the s		= 1/41 = 0.024
	: PPM = Mass of solute x 106		0 - 90
	: PPM - Mass of solute × 106 Mass of solution = 25 × 106		Nwater = 9 + 9
	= 100 × 10		40
- 15	= 25×104 ppm		= 40 = 41 = 40/41
	The same of the sa		= 40/41
(ii)	Mole fraction =>		= 0.976
	The state of the s	-	when do sit a state of
14	X _ nsalve	(V)	Molarity -)
	Solute - Nsolute + Nsolute	-	
	all weeks of the contract of t	*	Molarity - No. of moles of solute Volume of solution
(1)	Calculate mole fraction of solute	-	VOLUME OF ALEXANDE
-	4 solvent un 20% violution	-A-	Mass of solute
.50	of glucose in water.	×	Molarity = Mass of solute Molar mass x Volume of solution
-1			
-)	Molecular mass of the = 10g Molecular mass of Glucose = 100g		When % of mass of solute 4 volume of sol" is given ->
	THE PART OF THE PA		volume of sol is given ->
-	:. No. of moles of general = 100 = 19 mol	- 2	
	30 = 19 mol	-X	Molarity = 1/0 x d x 10 Molar mass
	The state of the s		
	Also, No. of moles of water = 89/10 Shot on Y83 Pro = 40/9 mol	(1)	Find out the molarity of 2
大大		-(-)	The sac are Moxaring of 2
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